

International Application No.: PCT/JP2005/002270

U.S. Patent Application No.: Unknown

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IN THE ABSTRACT:

Please replace the Abstract of the Disclosure originally filed with the above-identified patent application with the following new Abstract of the Disclosure:

ABSTRACT OF THE DISCLOSURE

A current direction detection circuit includes a monitoring transistor having a control terminal and an output terminal respectively connected with a control terminal and an output terminal of a ground side output transistor; an impedance element having one terminal connected with an input terminal of the monitoring transistor and the other terminal grounded; first and second constant-current sources; a diode-connected reference transistor interposed between the first constant-current source and ground potential; and a sensing transistor interposed between the second constant-current source and the impedance element and having a control terminal connected with the control terminal of the reference transistor. The current direction detection circuit is small yet capable of minimizing power loss of a switching regulator.